

PCAP Converter Instructions

Team Gamma – Antony Gillette

April 16, 2017

Dependencies

- 1) GCC (or equivalent C compiler)
- 2) Make
- 3) pcap development libraries (apt-get install libpcap-dev or the equivalent)
- 4) pcap_to_ipv4_udp.c and the included Makefile
- 5) Hex reader such as xxd to see output

Note: Tested on Ubuntu 14.04, grey highlights represent commands in terminal

Instructions

To build and run **pcap_to_ipv4_udp.c** (extracts IPv4 UDP packets from pcap files):

- 1) `make ip`
 - a. To build without make: `gcc pcap_to_ipv4_udp.c -lpcap -o ptu`
- 2) `./pitu <input_file> <output_file>`
 - a. *input_file* represents the path to a pcap file
 - b. *output_file* represents the filename of the IPv4/UDP packet output
 - c. Example: `./pitu sample_capture.pcap ipv4_udp.bin`

To scroll through file output:

- 1) `xxd ipv4_udp.bin | less`

Notes

- 1) To build on Windows, WinPcap is needed and can be downloaded here:
<https://www.winpcap.org/devel.htm>
To set up WinPcap for compiling with C programs, see the following:
https://www.winpcap.org/docs/docs_40_2/html/group_wpcapsamps.html

- 2) A wide selection of example pcap files for testing can be downloaded here:
<http://www.netresec.com/?page=PcapFiles>
- 3) This PCAP converter expects non-corrupted PCAP files, and filters out all but IPv4 packets with UDP payloads by analyzing the protocol byte in the IPv4 headers and deleting packets without the UDP protocol byte